

Classwork

1/25/10

① What is slope? Write everything you know about it.

$$\frac{\text{rise}}{\text{run}} \rightarrow \frac{\Delta Y}{\Delta X}$$

change

$$y = mx + b$$

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

rate

② Solve for x

$$\textcircled{a} 3x + 5 = 17$$

$$x = 4$$

$$\textcircled{b} \frac{3(x+2)}{4} - 7 = 8$$

$$\begin{array}{rcl} x & 8 & \\ + 2 & + 7 = 15 & \\ \cdot 3 & \cdot 4 = 60 & x = 18 \\ \div 4 & \div 3 = 20 & \\ - 7 & - 2 = 18 & \\ = 8 & & \end{array}$$

③ Write an equation for each table

④

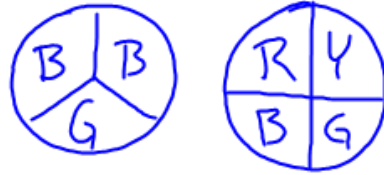
| x | y |
|---|----|
| 1 | 7 |
| 2 | 11 |
| 3 | 15 |
| 4 | 19 |

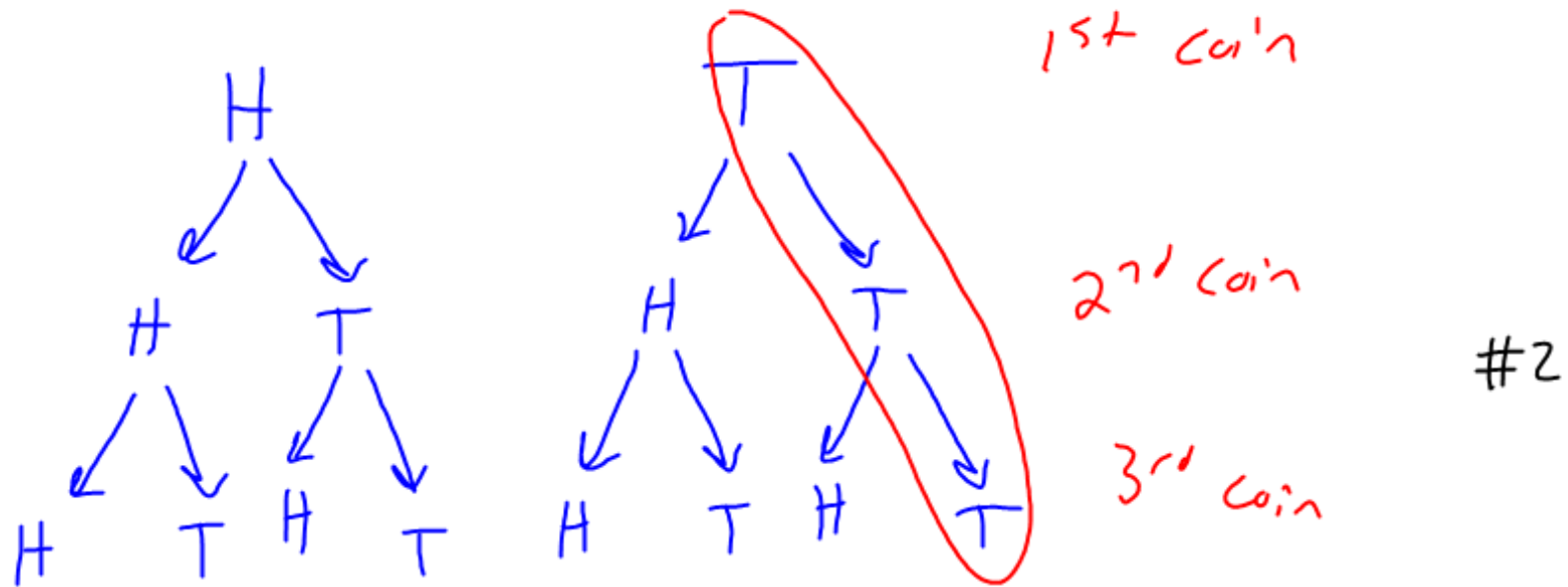
$$y = 4x + 3$$

| x | y |
|---|----|
| 2 | 7 |
| 5 | 16 |
| 7 | 22 |

$$y = 3x + 1$$

Basic Probability

- ① Two six-sided dice are rolled. What is the probability of rolling doubles?
- ② 3 coins are flipped, What is the probability they will all land tails?
- ③ Find the probability of spinning a green and blue (order does not matter) if each spinner is spun once

- ④ A coin and a six-sided die are thrown, what is the probability of a head and a 6?
- ⑤ Two 6-sided dice are rolled, what is the probability of rolling a sum of 3 or 8.



Tree diagram

$$\frac{1}{8}$$

| | B | B | G |
|---|------|------|-----|
| R | | | |
| Y | | | |
| B | | | /// |
| G | //// | //// | |

$\frac{3}{12} = \frac{1}{4}$

#3

| | H | T |
|---|---|---|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | X | |

$\frac{1}{12}$ #4

2nd
event

1st event

| | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---------------|---------------|---------------|---------------|---------------|---------------|
| 1 | x | mm | | | | |
| 2 | mm | x | | | | mm |
| 3 | | | x | | mm | |
| 4 | | | | mm | | |
| 5 | | | mm | | x | |
| 6 | | mm | | | | x |

$$\frac{6}{36} = \frac{1}{6} \quad \#1$$

$$\frac{7}{36} \quad \#5$$

Internet Use

| Month | Time (hr) | Total fee (\$) |
|-----------|-----------|----------------|
| September | 4 | 16.75 |
| October | 5 | 19.70 |
| November | 8 | 28.55 |

\leftarrow 2.95 rise
 \leftarrow 8.85

$$\frac{2.95}{1} \text{ rise } \frac{8.85}{3} = 2.95 \text{ rate per hour}$$

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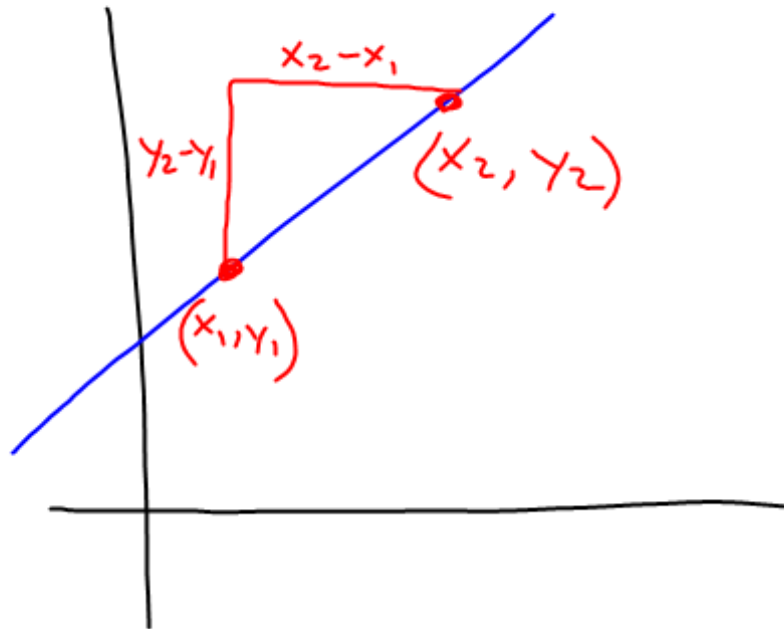
~~not a line~~

X

Y

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \text{slope} = \frac{\text{rise}}{\text{run}} = \frac{\Delta y}{\Delta x}$$

positive



negative

zero

undefined

[HW] 5.1, p.256, #1-3

. Turn in classwork

. Sit back down so I can give you tests